

## **Abstract**

A large resisting distortion combo-type bridge expansion joint,  
5 comprises fixed comb plate 2 and moveable comb plate 1 which are  
respectively disposed on the girder 10 where at the two sides of the  
bridge expansion joint, the moveable comb plate 1 has comb teeth 11  
interdigitate with the comb teeth 21 of the fixed comb plate,  
characterized in that said moved comb plate 1 has a rotating shaft  
10 8 at the bottom of its second end, and the two ends of the rotating  
shaft 8 pivot in the shaft seat 7 which is directly or indirectly  
fixed on the girders 10. Compared with the prior art, this invention  
designs that around the second end of the moveable comb plate is  
rotatable, by which the moved comb plate will rotate round the girders  
15 when the girders have deflection distortion and the ends of the girders  
are raising or sinking. Therefore, the moved comb plate can keep flat  
to avoid damage of the expansion joint, and to ensure that the vehicle  
can pass safely and smoothly.